



WATER DIVISION
3900 MAIN STREET
RIVERSIDE, CA 92522
PHONE: 951-826-5285
FAX: 951-826-2498

SAMPLE GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THESE PLANS AND IN CONFORMANCE WITH THE CITY OF RIVERSIDE PUBLIC UTILITIES DEPARTMENT, WATER DIVISION, STANDARD SPECIFICATION NO. 205 FOR WATER DISTRIBUTION SYSTEMS, LATEST REVISION; ALL APPLICABLE A.W.W.A. STANDARDS AND SPECIFICATIONS, EXCEPT AS NOTED; AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK), LATEST ADOPTED EDITION AND AMENDMENTS.
2. ALL WATER MAINS 12 INCH AND UNDER SHALL BE CLASS 350 D.I.P. PER A.W.W.A. C-151. ALL PIPE JOINTS SHALL BE RESTRAINED WITH ROMAC INDUSTRIES, INC. "GRIP RING" GASKETS, U.S. PIPE AND FOUNDRY CO. "FIELD-LOK" GASKETS OR WATER DIVISION APPROVED EQUAL.
3. APPROVAL OF THIS PLAN BY THE WATER DIVISION DOES NOT RELIEVE THE PRIVATE ENGINEER OF THE DESIGN RESPONSIBILITY THEREOF. THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE WORK HEREON. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE CITY.
4. THE DEVELOPER SHALL BE RESPONSIBLE FOR PRESERVING OR RE-ESTABLISHING AND REFERENCING SURVEY MONUMENTS DESTROYED, DISTURBED OR BURIED AS A RESULT OF THE CONSTRUCTION SHOWN HEREON.
5. WATER MAINS SHALL BE LAID TO THE LINE AND GRADE SHOWN ON THE PLAN AND PER CWD-040.
 - A. THE DEVELOPER'S ENGINEER SHALL PROVIDE A CONSTRUCTION OFF-SET LINE AND STATION ALL FITTINGS AND APPURTENANCES. CUT SHEETS SHALL BE PROVIDED FOR PIPELINES ON ALL STREETS.
 - B. MINIMUM DEPTH OF COVER OVER WATER MAINS LESS THAN 12 INCHES IN DIAMETER SHALL BE 3.0 FEET, UNLESS OTHERWISE NOTED. ALL 12 INCH DIAMETER WATER MAINS SHALL HAVE 4.0 FEET OF COVER.
6. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES, CONDUITS, CABLES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN, OR ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
7. PROPOSED ELECTRICAL UNDERGROUND AND STREET LIGHT FACILITIES ARE NOT SHOWN ON THE PLAN. THE CONTRACTOR SHALL COORDINATE INSTALLATION WITH THE DEVELOPER AND PUBLIC UTILITIES DEPARTMENT, ELECTRICAL DIVISION, 951-826-5452, FOR LOCATIONS OF THE PROPOSED ELECTRICAL AND STREET LIGHT FACILITIES.
8. PIPE SHALL BE HANDLED SO AS TO PROTECT PIPE AT ALL TIMES AND SHALL BE CAREFULLY BEDDED TO PROVIDE CONTINUOUS BEARING AND TO PREVENT UNEVEN SETTLEMENT. PIPE SHALL BE PROTECTED AGAINST FLOTATION AT ALL TIMES. OPEN ENDS SHALL BE SEALED AT ALL TIMES WHEN CONSTRUCTION IS NOT IN PROGRESS.
9. UNLESS OTHERWISE APPROVED, WATER MAINS AND SEWER MAINS SHALL NOT CROSS WITH LESS THAN 1.0 FOOT OF VERTICAL CLEARANCE. WATER SERVICE LINES AND SEWER LATERALS SHALL NOT BE IN THE SAME TRENCH, A MINIMUM, HORIZONTAL CLEARANCE OF 10 FEET IS REQUIRED. WATER MAINS SHALL CLEAR ALL HOUSE SEWER LATERALS BY A MINIMUM OF 1.0 FOOT VERTICAL CLEARANCE (PER CWD-015 AND CWD-023).

10. WATER METER BOXES AND FIRE HYDRANTS SHALL BE PLACED AT CURB SITE LOCATIONS. THE CONTRACTOR SHALL ADJUST THE METER BOXES TO SIDEWALK GRADE AFTER THE SIDEWALKS HAVE BEEN POURED. WATER METER BOXES SHALL NOT BE LOCATED IN DRIVEWAYS.
11. A MATERIAL LIST, PER WATER DIVISION SPECIFICATION NO. 205, SECTION 3-11 AND MATERIAL CERTIFICATIONS MUST BE SUBMITTED FOR WATER DIVISION APPROVAL PRIOR TO INSTALLATION.
12. THE CONTRACTOR MAY BEGIN CONSTRUCTION ONLY AFTER A PRECONSTRUCTION MEETING IS HELD WITH THE WATER DIVISION ENGINEERING STAFF. CONTACT WATER CONSTRUCTION INSPECTION AT 951-826-5672, AT LEAST ONE WEEK PRIOR TO THE PLANNED START OF CONSTRUCTION OF THE WATERLINES TO ARRANGE THIS MEETING.
13. THE CONTRACTOR SHALL CALL IN A LOCATION REQUEST TO UNDERGROUND SERVICE ALERT (USA), 1-800-227-2600, TWO WORKING DAYS BEFORE DIGGING. NO STREET OPENING PERMIT WILL BE ISSUED BY THE PUBLIC WORKS DEPARTMENT INVOLVING EXCAVATION FOR UNDERGROUND FACILITIES UNLESS THE APPLICANT HAS BEEN PROVIDED AN INQUIRY IDENTIFICATION NUMBER BY USA. ALL NECESSARY PERMITS SHALL BE TAKEN OUT BY THE CONSTRUCTION CONTRACTOR. A STREET OPENING PERMIT, ISSUED BY THE PUBLIC WORKS DEPARTMENT, OR A RIVERSIDE COUNTY ENCROACHMENT PERMIT, DEPENDING UPON JURISDICTION, IS REQUIRED PRIOR TO THE START OF CONSTRUCTION.
14. THE CONTRACTOR SHALL POTHOLE EXISTING UTILITIES, PRIOR TO CONSTRUCTION, TO DETERMINE THE DEPTH OF COVER. THE WATER MAIN SHALL BE INSTALLED WITH THE REQUIRED VERTICAL CLEARANCE. IF INSUFFICIENT COVER EXISTS, THE CONTRACTOR SHALL THE CONTACT THE PRIVATE ENGINEER WHO SIGNED THE PLAN TO DETERMINE AN ACCEPTABLE SOLUTION.
15. THE CONTRACTOR SHALL REQUEST WATER DIVISION INSPECTION TWO WORKING DAYS PRIOR TO TRENCHING. PLANS AND SPECIFICATIONS SHALL BE ON-SITE AT ALL TIMES.
16. WATER MAINS SHALL BE SAND BEDDED IN ACCORDANCE WITH CWD-040. NATIVE MATERIAL WITH A SAND EQUIVALENT GREATER THAN 30 WILL BE ALLOWED.
17. THE CONTRACTOR SHALL NOT BACKFILL ANY TRENCHES UNTIL HE HAS OBTAINED AS-BUILT STATIONING ON ALL FITTINGS AND APPURTENANCES. PRESSURE TESTING WILL NOT BE ALLOWED UNTIL AS-BUILTS, SUBMITTED BY THE CONTRACTOR, HAVE BEEN APPROVED BY THE WATER DIVISION.
18. THE CONTRACTOR SHALL BULKHEAD MAINS, PLACE AND COMPACT BACKFILL, TEST, STERILIZE AND PASS BACTERIOLOGICAL TESTING BEFORE ANY TIE-INS ARE MADE TO THE CITY SYSTEM. CITY FORCES WILL MAKE THE FINAL SYSTEM CONNECTIONS FROM THE EXISTING MAIN. NO CONNECTIONS WILL BE MADE UNTIL ALL TESTING IS COMPLETE AND WRITTEN PASSING BACTERIOLOGICAL TEST RESULTS HAVE BEEN SUBMITTED TO THE WATER DIVISION.
 - A. PRESSURE TESTING SHALL BE CONDUCTED AFTER THE TRENCH BACKFILL HAS PASSED THE REQUIRED COMPACTION TESTS. HYDRO TEST PRESSURE SHALL BE 200 PSI FOR TWO HOURS. THE LEAKAGE LIMIT IS 15 GALLONS PER INCH DIAMETER PER MILE, PER 24 HOURS.
 - B. GAS CHLORINATION IS REQUIRED FOR A MINIMUM PERIOD OF 24 HOURS. AFTER THE MINIMUM CHLORINATION CONTACT TIME, THE CONTRACTOR SHALL DECHLORINATE THE TEST WATER IN ACCORDANCE WITH THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, SANTA ANA REGION ORDER NO. 98-67 AND NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) NO. CAG998001.
 - C. A MINIMUM OF TWO BACTERIOLOGICAL TESTS ARE REQUIRED, PER DAY. APPROXIMATELY ONE SAMPLE SHALL BE TAKEN PER 500 FEET OF MAIN FOR TWO CONSECUTIVE DAYS.
19. REFER TO CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT DRAWINGS (LIST THE R-, S-, AND D-NUMBERS) FOR PROJECT COORDINATION.
20. BLUE HYDRANT REFLECTORS ARE REQUIRED FOR EACH HYDRANT.
21. ALL CURBS, GUTTERS, SEWER LINES AND STORM DRAIN LINES MUST BE INSTALLED PRIOR TO BEGINNING ANY WATER LINE INSTALLATION.